

Appl. No. 10/629,030  
Examiner: YOUNG, CHRISTOPHER G, Art Unit 1756  
In response to the Office Action dated June 22, 2005

Date: September 22, 2005  
Attorney Docket No. 10112601

## AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

### Listing of Claims

**Claim 1 (Currently Amended):** An exposure system with group compensation, comprising:  
a lot classification database to record a group classification of at least one lot wafer of wafers, in which the group classification is determined according to a device and a mask used in a front-end process;  
a compensation unit to obtain the group classification of the lot wafer of wafers from the lot classification database, retrieve a group compensation value according to the group classification, and compensate at least one overlay parameter according to the group compensation value; and  
a first exposure device to perform a back-end process including overlay and exposure processes on the lot wafer of wafers using the compensated overlay parameters.

**Claim 2 (Currently Amended):** The exposure system with group compensation as claimed in claim 1 further comprising a second exposure device to perform the [[a]] the front-end process on the lot wafer of wafers, determine the group classification of the lot wafer of wafers, and store the group classification in the lot classification database.

**Claim 3 (Canceled)**

**Claim 4 (Currently Amended):** The exposure system with group compensation as claimed in claim 1 wherein the first exposure device further updates the group classification in the lot classification database after the lot wafer of wafers undergoes the back-end process.

**Claim 5 (Original):** The exposure system with group compensation as claimed in claim 4 wherein the first exposure device updates the group classification according to the device and mask used therein.

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Claims 6-10 (Canceled)

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